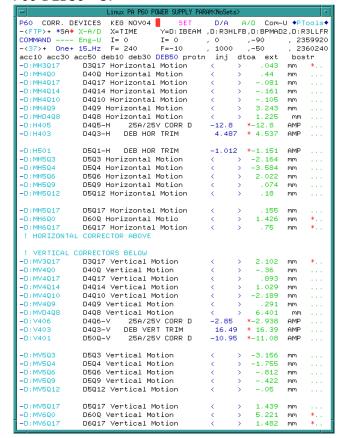
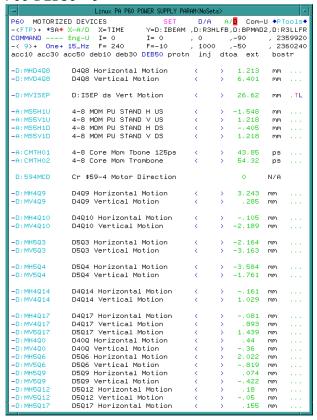
2005-12-08-Debuncher Component Centering

- 1. Complete a Debuncher admittance measurement to document starting conditions.
- 2. Running Wave using the Java Paint the Aperture Application. The purpose of this step is to find where we are losing beam so that we can make bumps in that location.
 - Start the Java Application from the Java Index
 - Task Manager -> Configure
 - Load last configuration
 - Choose file configuration
 - Unclick Modify timers
 - Cosine Activator
 - D:V401
 - Delta = 10, so knob D:V401 from -19.95 to -9.5
 - P60 DEB50 <37>



- D:DPENI: Issue and "Off," then issue a "+." WE only need to do this once.
- P60 DEB50 <9>

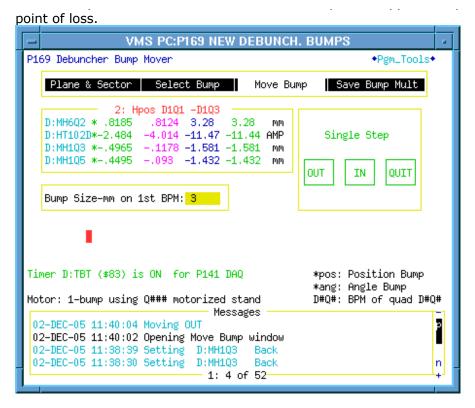
■ P60 DEB50 <9>



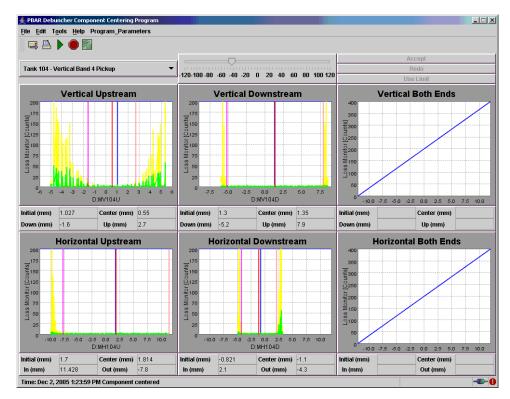
- D:DPVATT 63.75 dB -> 3.75dB -> 63.75dB.
- Accept and recalculate
- o Run
- File -> Save As
 - C:\Paint Aperture
- Computer icon
- Move slide bar around we can see where beam is lost. The bottom of the slop is where to look. Look for bumps in this area.

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 Find a bump for the location that the Paint the Aperture application points to as a point of loss.



- Plot loss monitors while moving bump. Moving too far in either direction will create losses. The idea is to move the bump in such a way to maximize the lossless region of plot.
- Complete a Debuncher Admittance measurement to check progress.
- Start the Java Pbar Component Centering Application. We will now center Debuncher devices in the region of the bump that we just made.



Choose device to bump around in pull-down menu on top-left.

Choose device to bump around in pull-down menu on top-left.



Setup Application

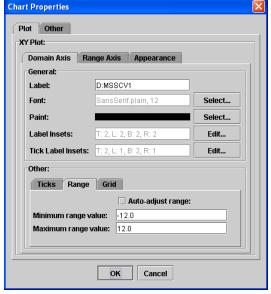


- Program Parameters -> Loss Monitor Select (Use Pbar map to help choose loss monitors). We only select two loss monitors.
- Program Parameters -> Loss Monitor Threshold. Used 200. This is the loss value were we stop moving the debuncher device.
- Program Parameters -> Motor Step Size: Two different kinds of stands. We were using 0.2mm and 1500 steps. Smaller step size takes longer, but yields more detail.
- Program Paramters -> Mask Motors: Deselect any scans that you are not going to complete.
- RUN

0

0

When losses exceed threshold, use slider bar to mark the loss touch point and click "Accept"





Adjust plot scale if necessary by right-clicking on the plot and selecting "Properties"

When scan completed in other direction, again use slider bar to show the touch point.

Pbar Studies & Startup Page 4



- Click Accept and the application will move the movable device to the center point between the two touch points that you selected.
- · Repeat for all devices in area.
- Repeat Debuncher admittance measurement to verify that you did not hurt the aperture.